

Amendments to the Claims:

This listing of the claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1. (Currently Amended) A method of updating information maintained at an intermediary web site on a computer network about items being auctioned at a plurality of remotely located auction sites on the computer network, wherein the information is displayable to users accessing the intermediary web site via the computer network, the method comprising ~~the following steps~~:

obtaining auction item data that has changed since a previous time for auctions currently being conducted at the respective auction sites;

extracting keywords from the obtained auction item data; and

storing the extracted keywords, wherein each stored keyword is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites, and wherein the stored keywords are searchable by users accessing the intermediary web site.

2. (Currently Amended) The method according to Claim 1 wherein ~~the step of~~ obtaining auction item data that has changed since a previous time is performed at predetermined time intervals.

3. (Currently Amended) The method according to Claim 1 wherein each auction site includes a data engine that is configured to obtain data about each item currently being auctioned at the respective auction site, and wherein the intermediary web site includes an agent that is configured to communicate with and retrieve auction item data from each auction site data engine, and wherein ~~the step of~~ obtaining auction item data at each of the auction sites that has changed since a previous time for auctions currently being conducted at each respective auction site comprises:

establishing a TCP/IP connection between the agent and each respective data engine;
and
sending an HTTP request from the agent to each respective data engine via the
TCP/IP connection to obtain auction item data that has changed since a previous time.

4. (Currently Amended) The method according to Claim 3 wherein the data engine at each auction site comprises a data file configured to store cyclic redundancy checking (CRC) values for static and dynamic information about each auction item being auctioned at the respective auction site, wherein static information comprises an identification of an auction item, wherein dynamic information comprises at least one of bid information and price information associated with an auction item, and wherein ~~the step of~~ obtaining auction item data that has changed since a previous time comprises the following steps performed by each respective data engine:

determining whether the data file contains a CRC value for each item currently being auctioned;

storing CRC values in the data file for each item currently being auctioned that does not have a CRC value in the data file; and

sending static and dynamic information to the intermediary web site for each item currently being auctioned that does not have a CRC value in the data file.

5. (Currently Amended) The method according to Claim 4 wherein ~~the step of~~ obtaining auction item data that has changed since a previous time further comprises the following steps performed by each respective data engine:


generating new CRC values for each item currently being auctioned;

comparing the new CRC values with CRC values stored within the data file for each respective auction item;

storing the new CRC values for each item currently being auctioned in the respective data file if the new CRC values differ from the stored CRC values; and

sending to the intermediary web site current information for each item currently being auctioned.

6. (Currently Amended) A method of updating information maintained at an intermediary web site on a computer network about items being auctioned at a plurality of remotely located auction sites on the computer network, wherein the information is displayable to users accessing the intermediary web site via the computer network, the method comprising:

 ~~wherein each auction site includes a data engine that is configured to obtain~~ obtaining data about each item currently being auctioned at ~~the each~~ respective auction site, ~~wherein each data engine comprises~~ wherein each auction site includes a data engine comprising a data file configured to store cyclic redundancy checking (CRC) values for static and dynamic information about each auction item being auctioned at the respective auction site, wherein static information comprises an identification of an auction item, wherein dynamic information comprises at least one of bid information and price information associated with an auction item, and wherein the intermediary web site includes an agent that is configured to communicate with and retrieve auction item data from each auction site data engine, the method comprising the following steps:

sending a request from the ~~agent~~ intermediary web site to ~~[[a]]~~ the plurality of respective data engines to obtain auction item data that has changed since a previous time for auctions currently being conducted at the respective auction sites, wherein the intermediary web site includes an agent that is configured to communicate with and retrieve auction item data from each auction site data engine;

obtaining auction item data that has changed since a previous time for auctions currently being conducted at the respective auction sites, comprising the following steps performed by each respective data engine:

determining whether a data file contains a CRC value for each item currently being auctioned;

storing CRC values in the data file for each item currently being auctioned that does not have a CRC value in the data file; ~~[[and]]~~

sending static and dynamic information to the intermediary web site for each item currently being auctioned that does not have a CRC value in the data file; and

updating the information maintained at the intermediary web site with the static and dynamic information received from each respective data engine.

7. (Currently Amended) The method according to Claim 6 wherein ~~the step of~~ updating the information maintained at the intermediary web site comprises ~~the following steps~~:

extracting keywords from the received static and dynamic information; and
storing the extracted keywords, wherein each stored keyword is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites, and wherein the stored keywords are searchable by users accessing the intermediary web site.

8. (Currently Amended) The method according to Claim 6 wherein ~~the step of~~ sending a request from the agent to each of a plurality of respective data engines is performed at predetermined time intervals.

9. (Currently Amended) The method according to Claim 6 wherein ~~the step of~~ obtaining auction item data that has changed since a previous time further comprises the following steps performed by each respective data engine:

generating new CRC values for each item currently being auctioned;
comparing the new CRC values with CRC values stored within a data file for each respective auction item;
storing the new CRC values for each item currently being auctioned in the respective data file if the new CRC values differ from the stored CRC values; and
sending to the intermediary web site current information for each item currently being auctioned.

10. (Withdrawn) A method of providing information, via a Web site of an intermediary, about items being auctioned at a plurality of remotely located auction sites on a computer network, wherein the Web site is configured to communicate with each of the

plurality of remotely located auction sites via the computer network, and wherein the Web site is configured to communicate with users accessing the Web site via respective Web clients, the method comprising the following steps:

receiving a user request at the Web site for information about items currently being auctioned at one or more of the auction sites, wherein the user request comprises at least one of a keyword and an auction item parameter; and

responsive to receiving the user request, searching keywords maintained by the Web site for matches with the user request keyword, wherein each keyword maintained by the Web site is associated with at least one item currently being auctioned at a respective one of the plurality of remotely located auction sites; and

responsive to locating a keyword that matches a user request keyword, displaying information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises an identification of the auction item, and wherein a portion of the displayed information is selectably linked to the respective auction site such that, upon user activation, a user Web client is redirected to the respective auction site.

11. (Withdrawn) The method according to Claim 10, wherein the displayed information further comprises at least one of auction time and price information associated with the auction item.

12. (Withdrawn) The method according to Claim 10, further comprising the step of sending the user updated information about the auction item at one or more future times.

13. (Withdrawn) The method according to Claim 10, further comprising:
performing a search of keywords maintained by the Web site subsequent to the displaying step; and
sending the user results from the performed search.

14. (Withdrawn) A method of providing information, via a Web site of an intermediary, about items being auctioned at a plurality of remotely located auction sites on a computer network, wherein the Web site is configured to communicate with each of the plurality of remotely located auction sites via the computer network, and wherein the Web site is configured to communicate with users accessing the Web site via respective Web clients, the method comprising the following steps:

receiving a user request at the Web site for information about items currently being auctioned at one or more of the auction sites, wherein the user request comprises a keyword;

responsive to receiving the user request,
searching keywords maintained by the Web site for matches with the user request keyword, wherein each keyword maintained by the Web site is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites;

responsive to locating a keyword that matches the user request keyword, displaying information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises at least one of an identification of the auction item, auction time, and price information associated with the auction item, and wherein a portion of the displayed information is selectably linked to the respective auction site such that, upon user activation, the user Web client is redirected to the respective auction site; and

sending the user updated information about the auction item at one or more future times.

15. (Withdrawn) The method according to Claim 12, wherein the step of sending the user updated information about the auction item at one or more future times comprises sending the user an e-mail message containing the updated information.

16. (Withdrawn) A method of participating in an auction conducted at one or more remotely located auction sites on a computer network, the method comprising the following steps:

sending a user request for information about items currently being auctioned at one or more of the remotely located auction sites to a Web site of an intermediary on the computer network, wherein the user request comprises at least one keyword;

responsive to receiving the user request, searching keywords maintained by the Web site for matches with the at least one user request keyword, wherein each keyword maintained by the Web site is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites;

responsive to locating a keyword that matches the user request keyword, displaying information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises at least one of an identification of the auction item, auction time, and price information associated with the auction item;

sending a user request to place a bid on the auction item to the intermediary Web site;
and

responsive to receiving the user request to place the bid, placing a bid for the user on the auction item at the respective auction site where the auction item is being auctioned.

17. (Withdrawn) The method according to Claim 16, further comprising the step of sending the user updated information about the auction item at one or more future times.

18. (Withdrawn) The method according to Claim 16, further comprising:
performing a search of keywords maintained by the Web site subsequent to the displaying step; and
sending the user results from the performed search.

19. (Withdrawn) A method of listing an item for sale in an auction conducted at one of a plurality of remotely located auction sites on a computer network, the method comprising the following steps performed by a Web site of an intermediary:

displaying a list of auctions conducted at one or more of the remotely located auction sites; and

sending a request to a selected one of the auction sites to list an item for sale at an auction conducted at the selected auction site in response to receiving a user request.

20. (Withdrawn) The method according to Claim 19, wherein the user request comprises at least one of an identification of the item, a quantity of the item, price information, and auction time information.

21. (Withdrawn) The method according to Claim 20, further comprising the step of sending the user updated information about auction status of the item at one or more future times.

22. (Withdrawn) The method according to Claim 21, wherein the step of sending the user updated information about auction status of the item at one or more future times comprises sending the user an e-mail message containing the updated information.

23. (Withdrawn) An on-line auction system, comprising:
a computer network;
at least one remotely located auction site in communication with the computer network, wherein each auction site comprises:
a data engine that is configured to obtain data about each item currently being auctioned at the respective auction site, wherein each data engine comprises a data file configured to store cyclic redundancy checking (CRC) values for static and dynamic information about each auction item being auctioned at the respective auction site, wherein static information comprises an identification of an auction item, wherein dynamic information comprises at least one of bid information and price information associated with an auction item; and
means for obtaining auction item data that has changed since a previous time for auctions currently being conducted at the respective auction sites;

a Web site of an intermediary in communication with the computer network, wherein the Web site is configured to display selected information about auction items at each of the remotely located auction sites, comprising:

an agent that is configured to communicate with and retrieve auction item data from each auction site data engine; and

means for sending a request from the agent to each of a plurality of respective data engines to obtain auction item data that has changed since a previous time for auctions currently being conducted at the respective auction sites; and

means for updating the information maintained at the intermediary web site with the information received from each respective data engine.

24. (Withdrawn) The on-line auction system according to Claim 23, wherein the means for obtaining auction item data that has changed since a previous time comprises:

means for determining whether the data file contains a CRC value for each item currently being auctioned;

means for storing CRC values in the data file for each item currently being auctioned that does not have a CRC value in the data file; and

means for sending static and dynamic information to the intermediary web site for each item currently being auctioned that does not have a CRC value in the data file.

25. (Withdrawn) The on-line auction system according to Claim 23, wherein the means for updating the information maintained at the intermediary web site comprises:

means for extracting keywords from the received information; and

means for storing the extracted keywords, wherein each stored keyword is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites, and wherein the stored keywords are searchable by users accessing the intermediary web site.

26. (Withdrawn) The on-line auction system according to Claim 23 wherein the means for sending a request from the agent to each of a plurality of respective data engines comprises means for sending requests at predetermined time intervals.

27. (Withdrawn) The on-line auction system according to Claim 23 wherein the means for obtaining auction item data that has changed since a previous time comprises:

means for generating new CRC values for each item currently being auctioned;

means for comparing new CRC values with CRC values stored within the data file for each respective auction item;

means for storing the CRC values for each item currently being auctioned in the respective data file if the new CRC values differ from the stored CRC values; and

means for sending to the intermediary web site current information for each item currently being auctioned.

28. (Withdrawn) A data processing system for providing information about items being auctioned at a plurality of remotely located auction sites on a computer network, wherein the data processing system is configured to communicate with each of the plurality of remotely located auction sites via the computer network, and wherein the data processing system is configured to communicate with users accessing the data processing system via respective Web clients, comprising:

means for receiving a user request for information about items currently being auctioned at one or more of the auction sites, wherein the user request comprises a keyword;

means, responsive to receiving a user request, for searching keywords maintained by the data processing system for matches with the user request keyword, wherein each keyword maintained by the data processing system is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites; and

means, responsive to locating a keyword that matches the user request keyword, for displaying information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises an identification of the auction item, and

wherein a portion of the displayed information is selectably linked to the respective auction site such that, upon user activation, a user Web client is redirected to the respective auction site.

29. (Withdrawn) The data processing system according to Claim 28, wherein the displayed information further comprises at least one of auction time and price information associated with the auction item.

30. (Withdrawn) The data processing system according to Claim 28, further comprising means for sending the user updated information about the auction item at one or more future times.

31. (Withdrawn) The data processing system according to Claim 28, further comprising:

means for subsequently performing searches of keywords maintained by the Web site;
and

means for sending the user results from the subsequently performed searches.

32. (Withdrawn) A data processing system for providing information about items being auctioned at a plurality of remotely located auction sites on a computer network, wherein the data processing system is configured to communicate with each of the plurality of remotely located auction sites via the computer network, and wherein the data processing system is configured to communicate with users accessing the data processing system via respective Web clients, comprising:

means for receiving a user request at the data processing system for information about items currently being auctioned at one or more of the auction sites, wherein the user request comprises a keyword;

means, responsive to receiving the user request, for searching keywords maintained by the data processing system for matches with the user request keyword, wherein each

keyword maintained by the data processing system is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites;

means, responsive to locating a keyword maintained by the data processing system that matches the user request keyword, for displaying information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises at least one of an identification of the auction item, auction time, and price information associated with the auction item, and wherein a portion of the displayed information is selectably linked to the respective auction site such that, upon user activation, a user Web client is redirected to the respective auction site; and

means for sending the user updated information about the auction item at one or more future times.

33. (Withdrawn) The data processing system according to Claim 32, wherein the means for sending the user updated information about the auction item at one or more future times comprises means for sending the user an e-mail message containing the updated information.

34. (Withdrawn) A data processing system for participating in an auction conducted at one or more remotely located auction sites on a computer network, comprising:

means for receiving a user request for information about items currently being auctioned at one or more of the remotely located auction sites, wherein the user request comprises at least one keyword;

means for searching keywords maintained by the data processing system for matches with the at least one user request keyword, wherein each keyword maintained by the data processing system is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites;

means, responsive to locating a keyword that matches the user request keyword, for displaying information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword,

wherein the displayed information comprises at least one of an identification of the auction item, auction time, and price information associated with the auction item;

means for receiving a user request to place a bid on the auction item; and

means for placing the bid on behalf of the user on the auction item at a respective auction site where the auction item is being auctioned.

35. (Withdrawn) The data processing system according to Claim 34, further comprising means for sending the user updated information about the auction item at one or more future times.

36. (Withdrawn) The data processing system according to Claim 34, further comprising:

means for subsequently performing searches of keywords maintained by the Web site;
and

means for sending the user results from the subsequently performed searches.

37. (Withdrawn) A data processing system for listing an item for sale in an auction conducted at one of a plurality of remotely located auction sites on a computer network, comprising:

means for displaying a list of auctions conducted at one or more of the remotely located auction sites;


means for receiving a user request to list an item for sale in a selected one of the displayed list of auctions; and

means for listing the item for sale in the selected auction at a respective auction site.

38. (Withdrawn) The data processing system according to Claim 37, wherein the user request comprises at least one of an identification of the item, a quantity of the item, price information, and auction time information.

39. (Withdrawn) The data processing system according to Claim 37, further comprising means for sending the user updated information about auction status of the item at one or more future times.

40. (Withdrawn) The data processing system according to Claim 39, wherein the means for sending the user updated information about auction status of the item at one or more future times comprises means for sending the user an e-mail message containing the updated information.



41. (Withdrawn) A computer program product that provides information about items being auctioned at a plurality of remotely located auction sites on a computer network, wherein the computer program product is configured to communicate with each of the plurality of remotely located auction sites via the computer network, wherein the computer program product is configured to communicate with users accessing the data processing system via respective Web clients, and wherein the computer program product comprises a computer usable storage medium having computer readable program code embodied in the medium, the computer readable program code comprising:

computer readable program code that receives a user request for information about items currently being auctioned at one or more of the auction sites, wherein the user request comprises a keyword;

computer readable program code that, in response to receiving a user request, searches stored keywords for matches with the user request keyword, wherein each stored keyword is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites; and

computer readable program code that, in response to locating a keyword that matches the user request keyword, displays information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises an identification of the auction item, and wherein a portion of the displayed information is selectably linked to the

respective auction site such that, upon user activation, a user Web client is redirected to the respective auction site.

42. (Withdrawn) The computer program product according to Claim 41, wherein the displayed information further comprises at least one of auction time and price information associated with the auction item.

43. (Withdrawn) The computer program product according to Claim 41, further comprising computer readable program code that sends the user updated information about the auction item at one or more future times.

44. (Withdrawn) The computer program product according to Claim 41, further comprising:

computer readable program code that subsequently performs searches of keywords maintained by the Web site; and

computer readable program code that sends the user results from the subsequently performed searches.

45. (Withdrawn) A computer program product that provides information about items being auctioned at a plurality of remotely located auction sites on a computer network, wherein the computer program product is configured to communicate with each of the plurality of remotely located auction sites via the computer network, wherein the computer program product is configured to communicate with users accessing the data processing system via respective Web clients, and wherein the computer program product comprises a computer usable storage medium having computer readable program code embodied in the medium, the computer readable program code comprising:

computer readable program code that receives a user request at the data processing system for information about items currently being auctioned at one or more of the auction sites, wherein the user request comprises a keyword;

computer readable program code that, in response to receiving the user request, searches stored keywords for matches with the user request keyword, wherein each stored keyword is associated with an item currently being auctioned at a respective one of the plurality of remotely located auction sites;

computer readable program code that, in response to locating a keyword that matches the user request keyword, displays information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises at least one of an identification of the auction item, auction time, and price information associated with the auction item, and wherein a portion of the displayed information is selectably linked to the respective auction site such that, upon user activation, a user Web client is redirected to the respective auction site; and

computer readable program code that sends the user updated information about the auction item at one or more future times.

46. (Withdrawn) The computer program product according to Claim 45, further comprising:

computer readable program code that subsequently performs searches of keywords maintained by the Web site; and

computer readable program code that sends the user results from the subsequently performed searches.

47. (Withdrawn) A computer program product that facilitates user participation in auctions conducted at remote, on-line auction sites on a computer network, wherein the computer program product comprises a computer usable storage medium having computer readable program code embodied in the medium, the computer readable program code comprising:

computer readable program code that receives a user request for information about items currently being auctioned at one or more of the remote auction sites, wherein the user request comprises at least one keyword;

computer readable program code that searches stored keywords for matches with the at least one user request keyword, wherein each stored keyword is associated with an item currently being auctioned at a respective one of the remote auction sites;

computer readable program code that, in response to locating a keyword that matches the user request keyword, displays information about an item currently being auctioned at a respective one of the plurality of remotely located auction sites that is associated with the located keyword, wherein the displayed information comprises at least one of an identification of the auction item, auction time, and price information associated with the auction item;

computer readable program code that receives a user request to place a bid on the auction item; and

computer readable program code that places the bid on behalf of the user on the auction item at a respective auction site where the auction item is being auctioned.

48. (Withdrawn) The computer program product according to Claim 47, further comprising computer readable program code that sends the user updated information about the auction item at one or more future times.

49. (Withdrawn) The computer program product according to Claim 47, further comprising:

computer readable program code that subsequently performs searches of keywords maintained by the Web site; and

computer readable program code that sends the user results from the subsequently performed searches.

50. (Withdrawn) A computer program product that lists an item for sale in an auction conducted at one of a plurality of remotely located auction sites on a computer network, wherein the computer program product comprises a computer usable storage medium having computer readable program code embodied in the medium, the computer readable program code comprising:

computer readable program code that displays a list of auctions conducted at one or more of the remotely located auction sites;

computer readable program code that receives a user request to list an item for sale in a selected one of the displayed list of auctions; and

computer readable program code that lists the item for sale in the selected auction at a respective auction site.

51. (Withdrawn) The computer program product according to Claim 50, wherein the user request comprises at least one of an identification of the item, a quantity of the item, price information, and auction time information.

52. (Withdrawn) The computer program product according to Claim 50, further comprising computer readable program code that sends the user updated information about auction status of the item at one or more future times.

53. (Withdrawn) The computer program product according to Claim 50, wherein the computer readable program code that sends the user updated information about auction status of the item at one or more future times comprises computer readable program code that sends the user an e-mail message containing the updated information.
